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=> s point mutation and dityrosine cross-linking
L1 0 POINT MUTATION AND DITYROSINE CROSS-LINKING

=> d 13

L3 ANSWER 1 OF 1 MEDLINE on STN

AN 2003145975 MEDLINE

DN PubMed ID: 12661766

TI Enhanced oligomerization of the alpha-synuclein mutant by the Cu, Zn-superoxide dismutase and hydrogen peroxide system.

AU Kang Jung Hoon; Kim Kyung Sik

CS Department of Genetic Engineering, Chongju University, Chongju 360-764, Korea.. jhkang@chongju.ac.kr

SO Molecules and cells, (2003 Feb 28) 15 (1) 87-93. Journal code: 9610936. ISSN: 1016-8478.

CY KOREA (SOUTH)

DT Journal; Article; (JOURNAL ARTICLE)

LA English

FS Priority Journals

EM 200305

ED Entered STN: 20030331

Last Updated on STN: 20030502 Entered Medline: 20030501

=> s point mutation and cross-linking L4 390 POINT MUTATION AND CROSS-LINKING

=> dup rem 14

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L5 298 DUP REM L4 (92 DUPLICATES REMOVED)

=> s 15 and dityrosine

L6 0 L5 AND DITYROSINE

=> s 15 and tyrosine

L7 34 L5 AND TYROSINE

=> s 15 and tyrosyl-tyrosyl

L8 0 L5 AND TYROSYL-TYROSYL

- L7 ANSWER 1 OF 34 MEDLINE on STN
- AN 2003111851 MEDLINE
- DN PubMed ID: 12591901
- TI A role of suppressor of cytokine signaling 3 (SOCS3/CIS3/SSI3) in CD28-mediated interleukin 2 production.
- AU Matsumoto Akira; Seki Yoh-ichi; Watanabe Ryosuke; Hayashi Katsuhiko; Johnston James A; Harada Yohsuke; Abe Ryo; Yoshimura Akihiko; Kubo Masato
- CS Research Institute for Biological Sciences, Tokyo University of Science, Chiba 278-0022, Japan.
- SO Journal of experimental medicine, (2003 Feb 17) 197 (4) 425-36. Journal code: 2985109R. ISSN: 0022-1007.
- CY United States
- DT Journal; Article; (JOURNAL ARTICLE)
- LA English
- FS Priority Journals
- EM 200303
- ED Entered STN: 20030311 Last Updated on STN: 20030321
- L7 ANSWER 2 OF 34 MEDLINE on STN

Entered Medline: 20030320

- AN 2002192409 MEDLINE
- DN PubMed ID: 11815609
- TI Structural basis for binding multiple ligands by the common cytokine receptor gamma-chain.
- AU Olosz Ferenc; Malek Thomas R
- CS Department of Microbiology and Immunology, University of Miami School of Medicine, Miami, Florida 33101, USA.
- NC AI401114 (NIAID)
- SO Journal of biological chemistry, (2002 Apr 5) 277 (14) 12047-52. Journal code: 2985121R. ISSN: 0021-9258.
- CY United States
- DT Journal; Article; (JOURNAL ARTICLE)
- LA English
- FS Priority Journals
- EM 200205
- ED Entered STN: 20020403

Last Updated on STN: 20030105 Entered Medline: 20020513

- L7 ANSWER 3 OF 34 MEDLINE on STN
- AN 2002062921 MEDLINE
- DN PubMed ID: 11698401
- TI Conformational changes that occur during M3 muscarinic acetylcholine receptor activation probed by the use of an in situ disulfide cross-linking strategy.
- AU Ward Stuart D C; Hamdan Fadi F; Bloodworth Lanh M; Wess Jurgen
- CS Laboratory of Bioorganic Chemistry, NIDDK, National Institutes of Health, Bethesda, Maryland 20892, USA.
- SO Journal of biological chemistry, (2002 Jan 18) 277 (3) 2247-57. Journal code: 2985121R. ISSN: 0021-9258.
- CY United States
- DT Journal; Article; (JOURNAL ARTICLE)
- LA English
- FS Priority Journals
- EM 200202
- ED Entered STN: 20020125

Last Updated on STN: 20030105 Entered Medline: 20020213

- L7 ANSWER 4 OF 34 MEDLINE on STN
- AN 2001525611 MEDLINE
- DN PubMed ID: 11573249

- TI Utilization of a receptor reserve for effective amplification of mitogenic signaling by an epidermal growth factor mutant deficient in receptor activation.
- AU Nandagopal K; Popp D M; Niyogi S K
- CS The University of Tennessee-Oak Ridge Graduate School of Genome Science and Technology and Life Sciences Division, Oak Ridge National Laboratory, Oak Ridge, Tennessee 37831-8080, USA.
- SO Journal of cellular biochemistry, (2001 Aug 1-9) 83 (2) 326-41. Journal code: 8205768. ISSN: 0730-2312.
- CY United States
- DT Journal; Article; (JOURNAL ARTICLE)
- LA English
- FS Priority Journals
- EM 200112
- ED Entered STN: 20010927

Last Updated on STN: 20020122 Entered Medline: 20011207

- L7 ANSWER 5 OF 34 MEDLINE on STN
- AN 2001296615 MEDLINE
- DN PubMed ID: 11376005
- TI Dynamic recruitment of human CD2 into lipid rafts. Linkage to T cell signal transduction.
- AU Yang H; Reinherz E L
- CS Laboratory of Immunobiology, Dana-Farber Cancer Institute and the Department of Medicine, Harvard Medical School, Boston, Massachusetts 02115, USA.
- NC AI21226 (NIAID)
- SO Journal of biological chemistry, (2001 Jun 1) 276 (22) 18775-85. Journal code: 2985121R. ISSN: 0021-9258.
- CY United States
- DT Journal; Article; (JOURNAL ARTICLE)
- LA English
- FS Priority Journals
- EM 200107
- ED Entered STN: 20010730 Last Updated on STN: 20030105 Entered Medline: 20010726
- L7 ANSWER 6 OF 34 MEDLINE on STN
- AN 1999384077 MEDLINE
- DN PubMed ID: 10452997
- TI Requirement for Shc in TCR-mediated activation of a T cell hybridoma.
- AU Pratt J C; van den Brink M R; Igras V E; Walk S F; Ravichandran K S; Burakoff S J
- CS Division of Pediatric Oncology, Dana-Farber Cancer Institute, Department of Pediatrics, Harvard Medical School, Boston, MA 02115, USA.
- NC CA70758 (NCI)
- SO Journal of immunology (Baltimore, Md. : 1950), (1999 Sep 1) 163 (5) 2586-91.

Journal code: 2985117R. ISSN: 0022-1767.

- CY United States
- DT Journal; Article; (JOURNAL ARTICLE)
- LA English
- FS Abridged Index Medicus Journals; Priority Journals
- EM 199909
- ED Entered STN: 19990925

Last Updated on STN: 19990925

Entered Medline: 19990914

- L7 ANSWER 7 OF 34 MEDLINE on STN
- AN 1999182478 MEDLINE
- DN PubMed ID: 10082557
- TI CD5 negatively regulates the T-cell antigen receptor signal transduction pathway: involvement of SH2-containing phosphotyrosine phosphatase SHP-1.

- AU Perez-Villar J J; Whitney G S; Bowen M A; Hewgill D H; Aruffo A A; Kanner S B

 CS Immunology and Inflammation Drug Discovery, Bristol-Myers Squibb Pharmaceutical Research Institute, Princeton, New Jersey 08543, USA.. perezvj@bms.com

 SO Molecular and cellular biology, (1999 Apr) 19 (4) 2903-12.
- CY United States
- DT Journal; Article; (JOURNAL ARTICLE)

Journal code: 8109087. ISSN: 0270-7306.

- LA English
- FS Priority Journals
- EM 199904
- ED Entered STN: 19990504

Last Updated on STN: 19990504 Entered Medline: 19990420

- L7 ANSWER 8 OF 34 MEDLINE on STN
- AN 1998190014 MEDLINE
- DN PubMed ID: 9521759
- TI Determining protein-protein interactions by oxidative **cross-linking** of a glycine-glycine-histidine fusion protein.
- AU Brown K C; Yu Z; Burlingame A L; Craik C S
- CS Department of Pharmaceutical Chemistry, University of California at San Francisco, San Francisco, California 94131, USA.
- NC CA 72006 (NCI) NCRR 01614 (NCRR)
- SO Biochemistry, (1998 Mar 31) 37 (13) 4397-406. Journal code: 0370623. ISSN: 0006-2960.
- CY United States
- DT Journal; Article; (JOURNAL ARTICLE)
- LA English
- FS Priority Journals
- EM 199804
- ED Entered STN: 19980430

Last Updated on STN: 19980430 Entered Medline: 19980423

- L7 ANSWER 9 OF 34 MEDLINE on STN
- AN 1998056808 MEDLINE
- DN PubMed ID: 9394826
- TI Analysis of the **tyrosine** phosphorylation and calcium fluxing of human CD6 isoforms with different cytoplasmatic domains.
- AU Kobarg J; Whitney G S; Palmer D; Aruffo A; Bowen M A
- CS Bristol-Myers Squibb Pharmaceutical Research Institute, Seattle, USA.. Jorg-Kobarg@ccmail.bms.com
- SO European journal of immunology, (1997 Nov) 27 (11) 2971-80. Journal code: 1273201. ISSN: 0014-2980.
- CY GERMANY: Germany, Federal Republic of
- DT Journal; Article; (JOURNAL ARTICLE)
- LA English
- FS Priority Journals
- EM 199801
- ED Entered STN: 19980122

Last Updated on STN: 19980122 Entered Medline: 19980102

- L7 ANSWER 10 OF 34 MEDLINE on STN
- AN 97460142 MEDLINE
- DN PubMed ID: 9312162
- TI Lck phosphorylates the activation loop **tyrosine** of the Itk kinase domain and activates Itk kinase activity.
- AU Heyeck S D; Wilcox H M; Bunnell S C; Berg L J
- CS Department of Molecular and Cellular Biology, Harvard University, Cambridge, Massachusetts 02138, USA.
- NC AI37584 (NIAID)

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SO
     Journal of biological chemistry, (1997 Oct 3) 272 (40) 25401-8.
     Journal code: 2985121R. ISSN: 0021-9258.
CY
     United States
     Journal; Article; (JOURNAL ARTICLE)
DT
LA
     English
FS
     Priority Journals
EM
     199710
     Entered STN: 19971105
ED
     Last Updated on STN: 20000303
     Entered Medline: 19971022
=> s tyrosyl-tyrosyl and mutation
             2 TYROSYL-TYROSYL AND MUTATION
=> dup rem 19
PROCESSING COMPLETED FOR L9
              2 DUP REM L9 (0 DUPLICATES REMOVED)
=> d l10 1-2 ibib ab
L10 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER:
                          2002:392180 HCAPLUS
DOCUMENT NUMBER:
                          136:382547
TITLE:
                          Stabilization of proteins and enzymes by
                          tyrosyl-tyrosyl crosslinking
INVENTOR (S):
                          Marshall, Christopher P.; Hoffman, Alexander; Errico,
                          Joseph P.; Marshall, Paul B.
PATENT ASSIGNEE(S):
                          USA
SOURCE:
                          U.S. Pat. Appl. Publ., 79 pp., Cont.-in-part of Appl.
                          No. PCT/US00/28595.
                          CODEN: USXXCO
DOCUMENT TYPE:
                          Patent
LANGUAGE:
                          English
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
                     KIND DATE
     PATENT NO.
                                           APPLICATION NO. DATE
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                                           US 2001-837235
     US 2002061549
                       A1
                             20020523
                                                              20010418
                     A1 20010426
                                          WO 2000-US28595 20001016
     WO 2001029247
         W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
             CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU,
             SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN,
             YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
             DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ,
             CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
PRIORITY APPLN. INFO.:
                                         US 1999-159763P P 19991015
                                         WO 2000-US28595 A2 20001016
AΒ
     The invention concerns methods for stabilizing polypeptides and
     polypeptide complexes, and the polypeptides and polypeptide complexes
     stabilized using the methods. To achieve stabilization, a cross-link
     reaction is controlled such that polypeptides and polypeptide complexes
     maintain their original functionality. In one embodiment, the invention
     provides a method for the identification of amino acid residues which,
     when cross-linked, are least disruptive to the structure and function of
     the polypeptide or polypeptide complex. In another embodiment, the
     invention provides a method for mutagenesis of identified residues to
     further control the cross-link reaction. Polypeptides and polypeptide
     complexes so stabilized can be utilized under a wide variety of physiol.
     and non-physiol. conditions. Further, the cross-link methodol. disclosed
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herein may preclude the need for addn. of exogenous structures to

engineered proteins and complexes, such as peptide linkers that could be immunogenic and/or significantly decrease efficacy. In another embodiment, the invention provides a method for statistical anal. of databases of structural and/or sequence information available for polypeptides and polypeptide complexes to be stabilized. The statistical anal. identifies suitable residue pairs which are least likely to be disruptive of structure and function when cross-linked. Further, in a polypeptide chain or chains to be cross-linked, potentially undesirable reactive side-chains may be masked and protected, or altered using site-directed mutagenesis, e.g., to introduce a maximally conservative point mutation that will not support the cross-link reaction. The cross-link reaction conditions may also be adjusted to prevent undesired cross-links or other undesired side-effects. At residues identified as desirable positions for crosslinking, reactive side-chains may be introduced by site-directed mutagenesis, and the cross-link reaction is carried out using the conditions identified above.

reaction is carried out using the conditions identified above. L10 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2004 ACS on STN ACCESSION NUMBER: 2001:300896 HCAPLUS DOCUMENT NUMBER: 134:323140 TITLE: Stabilization of proteins and enzymes by tyrosyl-tyrosyl crosslinking INVENTOR(S): Marshall, Christopher P.; Hoffman, Alexander; Errico, Joseph P.; Marshall, Paul B. PATENT ASSIGNEE(S): Avatar Medical, Llc, USA SOURCE: PCT Int. Appl., 140 pp. CODEN: PIXXD2 DOCUMENT TYPE: Patent LANGUAGE: English FAMILY ACC. NUM. COUNT: PATENT INFORMATION: PATENT NO. KIND DATE APPLICATION NO. DATE -----A1 20010426 _____ -----WO 2000-US28595 20001016 WO 2001029247 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

WO 2001029247 A1 20010426 WO 2000-US28595 20001016

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

EP 1282722 A1 20030212 EP 2000-973574 20001016

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL

US 2002061549 A1 20020523 US 2001-837235 20010418

PRIORITY APPLN. INFO::

US 1999-159763P P 19991015

WO 2000-US28595 W 20001016

AB The invention described herein comprises methods for stabilizing polypeptides and polypeptide complexes by the introduction of intra-polypeptide and/or inter-polypeptide tyrosyl-tyrosyl bonds. The stabilization methods include controlled oxidative cross-link reaction such that polypeptides and polypeptide complexes maintain their original functionality. Embodiments of the invention outlining methods for identification of amino acid residues which when cross-linked are least disruptive to the structure and function of the polypeptides or polypeptide complex; as well as methods for mutagenesis for identifying residues to further control the cross-link reaction; and statistical anal. of the data base for the identification suitable residue pairs which are least likely to be disruptive of structure and function when cross-linked. Detailed cross-linked procedures and reaction conditions are exemplified and discussed.

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE ENTRY | TOTAL SESSION |
| CA SUBSCRIBER PRICE | -1.39 | -1.39 |

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